

## Faculty of Oral & Dental Medicine

### Periodontology

#### Information :

**Course Code :** MPD 421

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Faculty of Oral & Dental Medicine

#### Area Of Study :

- Foster knowledge that governs the principles of innate and acquired immune defense mechanisms.
- Provide opportunities for reviewing the macro- and microanatomy of the periodontium, histopathology, etiology and pathogenesis of periodontal diseases.
- Expand students analytical skills relative to clinical signs and symptoms and radiographic features of periodontal diseases

#### Description :

Histology of periodontium, Classification, Plaque induced gingivitis, Chronic periodontitis, Etiology of periodontal disease, Innate immunity, Cell mediated immunity, Humoral immunity, Complement, Pathogenesis of periodontal disease, Local predisposing factors

#### Course outcomes :

##### **a. Knowledge and Understanding: :**

1 -	Identify the mechanism of innate and acquired immune mechanisms and related immune cells.
2 -	State the different complement pathways and its role in immunity and inflammation
3 -	Recall the macro- and microanatomy of the periodontium
4 -	Define different diseases affecting the periodontium
5 -	Recognize the clinical signs and symptoms and radiographic features of plaque induced gingivitis and chronic periodontitis.
6 -	State the etiology and local predisposing factors of the periodontal diseases.
7 -	Describe the pathogenesis of periodontal diseases.

##### **b. Intellectual Skills: :**

1 -	Compare between innate and acquired immune responses.
2 -	Differentiate between different types of lymphocytes, subtypes of types T lymphocytes and different functions of antibodies
3 -	Recognize different periodontal diseases.
4 -	Differentiate between the different histopathological stages of gingivitis
5 -	Relate the clinical and radiographic features to reach a proper diagnosis

##### **c. Professional and Practical Skills: :**

1 -	Fill a periodontal chart
2 -	Diagnose common gingival and periodontal diseases.
3 -	Apply the principles of periodontal instrumentation

4 -	Perform scaling and root planing efficiently.
5 -	Select the appropriate technique and methods for mechanical plaque control.
6 -	Modify the plan for chemical plaque control according to observed signs and symptoms
7 -	Apply infection control guidelines for all clinical procedures

**d.General and Transferable Skills: :**

1 -	Maintain good relationship with his/her colleagues, instructors, and professors.
2 -	Respect the patient needs and demands.
3 -	Self-evaluate professional abilities, progress, and performance

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Histology of periodontium			
Classification			
Plaque induced gingivitis			
Chronic periodontitis			
Etiology of periodontal disease			
Innate immunity			
Cell mediated immunity			
Humoral immunity			
Complement			
Pathogenesis of periodontal disease			
Local predisposing factors			

**Teaching And Learning Methodologies :**

Lectures
Small group discussion
Demonstration
Clinical Training
Clinical Requirements.
E-Learning
PBL

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Oral exam	10.00		
Classwork	25.00		
Clinical exam	15.00		
Midterm exams	25.00		
Written exam	25.00		

**Recommended books :**

~ Carranza`s Clinical Periodontology, Newman MG, Takei HH, Klokkevold PR, Carranza FA, Elsevier 13th Edition, 2018.

~ Atlas of Cosmetic and Reconstructive Periodontal Surgery, Cohen ES, Amazon 3rd Edition, 2013.